CONTENTS

Solvolysis rates and activation parameters of phenylchloroformate in water–tetrahydrofuran and water–dioxane mixed solvents
M.A. Mousa, E.-H.M. Diefallah, H.A. Dessouki and S.T. Atwa (Benha, Egypt) 1

Iterative integral method to evaluate the classical non-isothermal kinetic parameters from a single curve obtained at constant heating rate using integration over small intervals of variables and the least-squares method
E. Urbanovici (Judeţul, Covasna, Romania) and E. Segal (Bucharest, Romania) 9

Preparation of novel non-symmetrical Schiff bases using solid state reactions
A.M. Donia and H. Saloum (Shebin El-Kom, Egypt) 19

Thermal analysis and conducting properties of polymers of diethynylbenzene and diethynylpyridine
M. Tomassetti, L. Campanella, C. Morgia and G. Ortaggi (Roma, Italy) 27

Thermal analysis, conducting properties and electrochemical applications of some conductor-doped polymers. Part 2
L. Campanella, M. Tomassetti and F. Mazzei (Roma, Italy) 41

Comparing regenerative SO_2 sorbents using TG: the SRO test
A.E. Duisterwinkel, E.B.M. Doesburg and G. Hakvoort (Delft, The Netherlands) 51

Evaluation of kinetic parameters for the thermal decomposition of γ-irradiated sodium bromate by dynamic thermogravimetry
S.M.K. Nair, K.K. Malayil and P. Daisamma Jacob (Kerala, India) 61

Thermal studies on some lanthanide(III) complexes of hexamethylenedithiocarbamate
K.K. Dahiya and N.K. Kaushik (Delhi, India) 69

Effect of different epoxy diluents/fortifier on the reactivity in curing and the thermal stability of epoxy resin using 2,2-bis[4-(*p*-aminophenoxy)phenyl]propane as a curing agent
R.H. Patel, V.S. Patel and R.G. Patel (Vallabh Vidyanagar, India) 77

Preparation of potassium trimolybdate by the thermal decomposition of a new oxomolybdenum(VI) oxalato complex
S.P. Goel, G.R. Verma, M.P. Sharma and S. Kumar (Muzaffarnagar, India) 87

Thermal properties of H_2SnCl_6 complexes. Part II. Thermal features of alkanaminium hexachlorostannates
T. Janiak and J. Błażejowski (Gdańsk, Poland) 93

Correlation of the thermal conductivity of saturated vapours
J. Lielmezs and T.A. Herrick (Vancouver, B.C., Canada) 113

New estimates for the thermodynamic functions of molecular boric acid
B.R. Bowsher and S. Dickinson (Dorset, Gt. Britain), J.S. Ogden and N.A. Young (Southampton, Gt. Britain) 125

Enthalpies of solution of NaI and CsI in *N*,*N*-dimethylacetamide–water mixtures at 298.15 K
S. Taniewska-Osińska and M. Tkaczyk (Łodź, Poland) 131

Automatic batch calorimetry: application to the determination of the thermodynamic parameters of Co(II)-5′adenosine monophosphate complex formation
M.T. Oms, A.M. Calafat, R. Forteza, J.J. Fiol, A. Terron and V. Cerda (Palma de Mallorca, Spain) and V. Moreno (Tarragona, Spain) 141

Effect of chemical adsorption of calcium oxalate monohydrate on DTA baseline
H. Liu (Nanchang, China) 151

Electrical and thermal properties of $NH_4Br_xCl_{1-x}$ single crystal
F. El-Kabbany, M. Tosson and S. Taha (Giza, Egypt) 159

Integral kinetic analysis from temperature programmed reaction data: alkaline hydrolysis of ethyl acetate as test reaction
M.I. Ortiz and A. Irabien (Bilbao, Spain) and A. Romero (Madrid, Spain) 169

Linear system theory of a heat conduction calorimeter. Part 1. Some properties of a linear system with zero initial conditions
S. Tanaka (Ibaraki, Japan) 181
Mutual solid–solid interaction between CuO and sodium oxide-doped alumina
G.A. El-Shobaky, Th. El-Nabarawy, G.A. Fagal and N.H. Amin (Cairo, Egypt) 195
Thermal solid–solid interaction between CuO and pure Al_2O_3 solids
G.A. El-Shobaky, G.A. Fagal and N.H. Amin (Cairo, Egypt) 205
A thermodynamic evaluation of the Au–Ge and Au–Si systems
P.-Y. Chevalier (Saint Martin d'Hères, France) 217
Thermal studies on fumaric acid and crotonic acid compounds of cobalt(II) and nickel(II)
J.R. Allan and J.G. Bonner (Edinburgh, Gt. Britain), H.J. Bowley, D.L. Gerrard and S. Hoey (Sunbury-on-Thames, Gt. Britain) 227
Thermophysical properties of protein crystals: thermal diffusivity measurements of methemoglobin single crystals using a dielectric heating technique
H.-J. Steinhoff (Bochum, F.R.G.) 235
Thermal synthesis of novel 'half unit' Schiff bases
F.A. El-Saied (Shebin El-Kom, Egypt) 245
Thiophenehydroxamic acid (THA) and its solid complexes with several metallic divalent cations: a spectroscopic and thermal study
F. Salinas (Extremadura, Spain), J.L. Martínez-Vidal, J.L. Pino and I.J. Pérez-Alvarez (Almería, Spain) 253
Application of a new method to the kinetic study of the thermal decarbonylation of sodium oxalate
R. Lozano, J. Roman, F. De Jesus, A. Jerez, M. Gaitan and E. Ramos (Madrid, Spain) 261
Excess enthalpies of ketone–triether mixtures. Measurement and application of the DISQUAC group contribution method
F.J. Rey and J. Martin-Gil (Valladolid, Spain) 269
Thermal and spectroscopic characterization of reaction products of Al-nitrate–Cr-nitrate interaction at various temperatures
M.F.R. Fouda, R.S. Amin and M.M. Selim (Cairo, Egypt) 277
The phase diagram $AgI–PbI_2$
R. Blachnik and U. Stöter (Osnabrück, F.R.G.) 293
Thermodynamics of the second proton dissociation processes of nine α-amino-acids and the third ionization processes of glutamic acid, aspartic acid and tyrosine
F. Rodante and G. Marrosu (Roma, Italy) and F. Fantauzzi (Aquila, Italy) 297
Thermal decomposition of nitroguanidine
P.P. Lee and M.H. Back (Ottawa, Ont., Canada) 305
Kinetic analysis of the thermal decomposition of the pirimicarb–Cu-montmorillonite complex
M.J. Sanchez-Martin and M. Sanchez-Camazano (Salamanca, Spain) 317

Announcement 323

Author Index 325

Subject Index 327